

WHAT IS CLAIMED IS:

1. A cleaning medium for a magnetic recording apparatus comprising a nonmagnetic support having provided thereon a lower coating layer mainly containing a nonmagnetic inorganic powder and a binder, and a cleaning layer containing at least a ferromagnetic inorganic powder and a binder provided on the lower coating layer, wherein the thickness of the cleaning layer is from 0.05 to 1.0 μm , the thickness of the lower coating layer is from 0.2 to 5.0 μm , the thickness of the support is from 2.0 to 10 μm , and the thickness in total of the cleaning medium (cleaning tape) is from 4.0 to 15 μm .

2. The cleaning medium for a magnetic recording apparatus as claimed in claim 1, wherein the binder in the lower coating layer comprises a polyurethane resin which is a reaction product containing polyol and organic diisocyanate as the main starting materials, and the polyurethane resin contains, as the polyol components, from 15 to 40 wt% of a short chain diol component having a cyclic structure, from 10 to 50 wt% of a long chain polyether polyol component, and a polar group-containing long chain polyol component having a molecular weight of from 500 to 5,000.

3. The cleaning medium for a magnetic recording apparatus as claimed in claim 1, wherein the surface of the cleaning layer has from 5 to 80 protrusions having a height of from 35 to 100 nm per 900 μm^2 , and the cleaning layer contains fatty acid amide, fatty acid and fatty acid ester.

4. The cleaning medium for a magnetic recording apparatus as claimed in claim 2, wherein the polar group-containing long chain polyol component in the polyurethane resin contains polar groups in an amount of from 1×10^{-5} eq/g to 2×10^{-4} eq/g based on the polyurethane resin.

5. The cleaning medium for a magnetic recording apparatus as claimed in claim 2, wherein the polar group-containing long chain polyol component contains at least one polar group selected from the group consisting of $-\text{SO}_3\text{M}$, $-\text{OSO}_3\text{M}$, $-\text{COOM}$, $-\text{PO}_3\text{M}_2$, $-\text{OPO}_3\text{M}_2$, $-\text{NR}_2$ and $-\text{N}^+\text{R}_2\text{R}'\text{COO}^-$ (wherein M represents a hydrogen atom, an alkali metal, an ammonium, and R and R' each represents an alkyl group having from 1 to 12 carbon atoms).

6. The cleaning medium for a magnetic recording apparatus as claimed in claim 2, wherein the polyurethane resin has from 3 to 20 OH groups per one molecule.

Sub A2
7. The cleaning medium for a magnetic recording apparatus as claimed in claim 2, wherein the cleaning layer is formed on the lower coating layer by a wet-on-wet coating method while the lower coating layer is still wet.